## Reply to Office Action of Oct. 21,

## **Listing of Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-55. (Cancelled)

56. (Currently Amended) A wound dressing, said wound dressing being configured adapted to cover and contact a wound, said wound dressing comprising a cationic aqueous hydrogel that comprises an inherently antimicrobial quaternary amine acrylate polymer having the formula:

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wherein n is an integer of 2 to 3; R', R" and R" are independently selected from the group consisting of H,  $C_1$  to  $C_{16}$  alkyl, aryl, arylamine, alkylamine, alkaryl and aralkyl; X is selected from the group consisting of O and NH; Y is an acceptable anionic counterion to the N $^+$  of the quaternary amine and m is an integer greater than 50,000.

wherein said acrylate polymer comprises from about 15 to about 95 percent by weight of said hydrogel.

- 57. (Previously Presented) A wound dressing as defined in claim 56, wherein R', R" and R" are independently selected from the group consisting of H, C<sub>1</sub> to C<sub>8</sub> alkyl, phenyl, tolyl, and benzyl.
- 58. (Previously Presented) A wound dressing as defined in claim 56, wherein R', R" are methyl and R'" is benzyl.
- 59. (Previously Presented) A wound dressing as defined in claim 56, wherein R', R" and R" are methyl.
- 60. (Previously Presented) A wound dressing as defined in claim 56, wherein X is O.
- 61. (Previously Presented) A wound dressing as defined in claim 56, wherein X is NH.
- 62. (Previously Presented) A wound dressing as defined in claim 56, wherein Y is selected from the group consisting of Cl<sup>-</sup>, Br<sup>-</sup>, HSO<sub>4</sub><sup>-</sup>, and CH<sub>3</sub>SO<sub>4</sub><sup>-</sup>.
- 63. (Previously Presented) A wound dressing as defined in claim 56, wherein Y is Cl<sup>-</sup>.
- 64. (Previously Presented) A wound dressing as defined in claim 56, wherein n is 2.
- 65. (Previously Presented) A wound dressing as defined in claim 56, wherein n is 3.
- 66. (Previously Presented) A wound dressing as defined in claim 56, wherein said acrylate polymer is formed from a monomer selected from the group consisting of Page 3 of 10

acryloyloxyethyltrimethyl ammonium chloride, acryloyloxyethyltrimethyl ammonium methyl sulfate, acrylamidopropyltrimethyl ammonium chloride,

acryloxyethyldimethylbenzyl ammonium chloride, and combinations thereof.

67. (Previously Presented) A wound dressing as defined in claim 56, further

comprising a support structure affixed to said hydrogel.

68. (Previously Presented) A wound dressing as defined in claim 67, wherein

said support structure includes a web or fibril material.

69. (Previously Presented) A wound dressing as defined in claim 67, wherein

said support structure includes an impermeable backing.

70. (Cancelled)

71. (Previously Presented) A wound dressing as defined in claim 56, wherein

said acrylate polymer comprises from about 61 to about 90 percent by weight of said

hydrogel.

72. (Previously Presented) A wound dressing as defined in claim 56, wherein

said acrylate polymer comprises from about 65 to about 75 percent by weight of said

hydrogel.

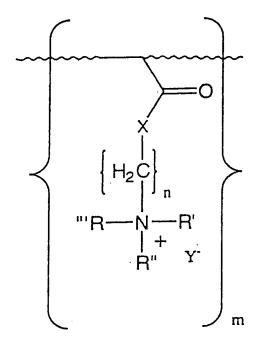
73. (Previously Presented) A wound dressing adapted to cover and contact a

wound, said wound dressing comprising a support structure in communication with a

cationic aqueous hydrogel that comprises from about 15 to about 95 percent by weight

of an inherently antimicrobial quaternary amine acrylate polymer having the formula:

Page 4 of 10



wherein n is an integer of 2 to 3; R', R" and R" are independently selected from the group consisting of H,  $C_1$  to  $C_8$  alkyl, phenyl, tolyl, and benzyl; X is selected from the group consisting of O and NH; Y is selected from the group consisting of Cl $^-$ , Br $^-$ , HSO $_4$  $^-$ , and CH $_3$ SO $_4$  $^-$  and m is an integer greater than 50,000.

- 74. (Previously Presented) A wound dressing as defined in claim 73, wherein R', R" are methyl and R" is benzyl.
- 75. (Previously Presented) A wound dressing as defined in claim 73, wherein R', R" and R" are methyl.
- 76. (Previously Presented) A wound dressing as defined in claim 73, wherein X is O.
- 77. (Previously Presented) A wound dressing as defined in claim 73, wherein X is NH.

- 78. (Previously Presented) A wound dressing as defined in claim 73, wherein Y is Cl<sup>-</sup>.
- 79. (Previously Presented) A wound dressing as defined in claim 73, wherein n is 2.
- 80. (Previously Presented) A wound dressing as defined in claim 73, wherein n is 3.
- 81. (Previously Presented) A wound dressing as defined in claim 73, wherein said acrylate polymer is formed from a monomer selected from the group consisting of acryloyloxyethyltrimethyl ammonium chloride, acryloyloxyethyltrimethyl ammonium methyl sulfate, acrylamidopropyltrimethyl ammonium chloride, acryloxyethyldimethylbenzyl ammonium chloride, and combinations thereof.
- 82. (Previously Presented) A wound dressing as defined in claim 73, wherein said support structure is affixed to said hydrogel.
- 83. (Previously Presented) A wound dressing as defined in claim 82, wherein said support structure includes a web or fibril material.
- 84. (Previously Presented) A wound dressing as defined in claim 82, wherein said support structure includes an impermeable backing.
- 85. (Previously Presented) A wound dressing as defined in claim 73, wherein said acrylate polymer comprises from about 61 to about 90 percent by weight of said hydrogel.
- 86. (Previously Presented) A wound dressing as defined in claim 73, wherein said acrylate polymer comprises from about 65 to about 75 percent by weight of said hydrogel.

87. (Previously Presented) A wound dressing comprising a support structure and a cationic aqueous hydrogel affixed to said support structure and adapted to cover a wound, said hydrogel comprising from about 61 to about 90 percent by weight of an inherently antimicrobial quaternary amine acrylate polymer having the formula:

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wherein n is an integer of 2 to 3; R', R" and R" are independently selected from the group consisting of H, C<sub>1</sub> to C<sub>8</sub> alkyl, phenyl, tolyl, and benzyl; X is selected from the group consisting of O and NH; Y is selected from the group consisting of Cl<sup>-</sup>, Br<sup>-</sup>, HSO<sub>4</sub>, and CH<sub>3</sub>SO<sub>4</sub> and m is an integer greater than 50,000.

- 88. (Previously Presented) A wound dressing as defined in claim 73, wherein X is O.
- 89. (Previously Presented) A wound dressing as defined in claim 73, wherein X is NH.

- 90. (Previously Presented) A wound dressing as defined in claim 73, wherein said acrylate polymer comprises from about 65 to about 75 percent by weight of said hydrogel.
- 91. (Previously Presented) A wound dressing as defined in claim 73, wherein n is 2.
- 92. (Previously Presented) A wound dressing as defined in claim 73, wherein n is 3.
- 93. (Previously Presented) A wound dressing as defined in claim 73, wherein said acrylate polymer is formed from a monomer selected from the group consisting of acryloyloxyethyltrimethyl ammonium chloride, acryloyloxyethyltrimethyl ammonium methyl sulfate, acrylamidopropyltrimethyl ammonium chloride, acryloxyethyldimethylbenzyl ammonium chloride, and combinations thereof.